

RTCA Paper No. 047-06/SC209-002
Minutes of Meeting #01 of RTCA SC-209
For The Maintenance of the ATCRBS & Mode S MOPS
<http://adsb.tc.faa.gov/SC209.htm>

The meeting was called to order by Co-Chair Thomas Pagano at 9:00am EST, 16 February 2006, at the facilities of RTCA in Washington DC. Mr. Pagano introduced himself as Co-Chair of the Special Committee, and also introduced Robert Saffell of Rockwell Collins as the other Co-Chair, Robert Duffer of the FAA AIR-130 organization as the Designated Federal Representative, and Gary Furr of L-3/Titan as the Secretary of SC-209. Mr Pagano then welcomed all attendees and asked that each attendee introduce themselves and their organization. The attendees for all or part of the meeting included:

2 nd Lt. Joe Adelmann, USAF, Hanscom AFB	Dick Eckert, ITT	Miles Muramoto, HQ AFFSA XOP
Mark Annee, U.S. Navy	John Fisher, Consultant, U.S. Air Force	Tom Mulkerin, Mulkerin Associates
Ray Bayh, BAE Systems	Gary Furr, L-3/Titan, FAA Tech Center	Tom Pagano, FAA Tech Center
John Berglund, U.S. Navy	Doug Guetter, L-3 / ACSS	Blane Rasch, U.S. Air Force
Mark Cato, ALPA	Richard Jennings, FAA	Bob Saffell, Rockwell Collins
Thomas Conklin, HQ AFFSA XOP	Andrew Leone, FAA Tech Center	Peter Skaves, FAA AIR-130
Andy Davis, Trig Avionics Ltd.	Robert Manning, L-3 / HQAF, Pentagon	Bill Thedford, Consultant, U.S. Air Force
John Doughty, Garmin International	Hal Moses, RTCA	Nolan Van Foeken, Garmin International
Rob Duffer, FAA, AIR-130	Peter Muraca, FAA Tech Center	Leo Wapelhorst, L-3/Titan, FAA Tech Center

1. Hal Moses addressed the Committee and indicated that he was the RTCA Program Management representative for Special Committee 209. Hal gave a short briefing about the history of RTCA and discussed some of the practices that SC-209 will be expected to follow in the execution of the Terms of Reference of the Committee. Hal welcomed all attendees and offered the services of RTCA during SC-209 meetings in RTCA facilities. Hal requested that all attendees sign in on the sheets provided so that we will be able to keep a record of all attendees of the Plenary sessions of SC-209.
2. Bob Manning asked a question as to whether or not SC-209 will have a web site to aid in the distribution of working papers and draft documents. Gary Furr answered that it might be possible to add SC-209 to the existing web site that he currently maintains at the FAA Technical Center for the Working Groups of RTCA SC-186. Gary accepted **Action Item 1-1** to discuss the addition of an SC-209 web site with others at the FAA Technical Center that have previously been responsible for the maintenance of the SC-186 ADS-B web site.
3. Another question was asked related to whether or not the efforts of SC-209 would impact any of the tasks for which the AEEC is responsible for. Robert Duffer agreed to accept **Action Item 1-2** to talk to ARINC about participating in the efforts of SC-209 in order to make sure that any issues that might be related to AEEC work would be carried back to that group.
4. Tom Pagano and Bob Saffell then began a review of the Terms of Reference of Special Committee 209, which were presented in Working Paper SC209-WP01-02. After stepping through each paragraph of the TOR, **the Committee agreed** that the Terms of Reference would be adapted as presented with no suggested changes.
5. Tom Pagano then began presentation of Working Paper SC209-WP01-07, which was a brief history of the ATCRBS and Mode S MOPS documents and how they relate to other standards documents, such as Extended Squitter and TCAS.
6. Tom Pagano then presented Working Paper SC209-WP01-08, which detailed a summary of work being performed by EUROCAE WG-49 in their effort to revise ED-73B. Tom indicated that there is an agreement between RTCA and EUROCAE that SC-209 and WG-49 will cooperate in their

respective document updates with the objective of the end products being as similar as possible. Another objective of the work product of both organizations is to align DO-181 and ED-73 so that ultimately updated versions of TSO-C112 and the European Aviation Safety Agency ETSO-C112 are harmonized. Bob Saffell indicated that he is attending the next meeting of WG-49 and will report activities between SC-209 and WG-49.

7. Bill Thedford began the presentation of Working Papers SC209-WP01-10 and 11. WP01-10 describes a data base application that Bill has agreed to create for the purpose of comparing the actual requirements text of DO-181C versus ED-73B. This effort was first started as an Action Item under WG-49, which Bill belongs to, and attends the meetings of. This data base application will benefit both SC-209 and WG-49 in our collective efforts to ensure that all requirements in both documents are as similar as possible. Working Paper SC209-WP01-11 was a sample report output of the data base application which shows a side-by-side comparison of requirements text in the respective documents. Bill agreed to take draft versions of each document during the coming year and update his data base in an effort to refine the requirements in both documents and work toward the objective of similar requirements in the end products of both DO-181D and ED-73C.
8. After a lunch break, the Working Group heard from Gary Furr as an introduction to Agenda Item #7. Gary indicated that Working Paper SC209-WP01-03 came about as a result of scanning the hard copy of the original DO-144 his computer and performing Optical Character Recognition on the resultant file, and then working to format the result into a document which conforms to the current RTCA standards for formatting of MOPS documents. Working Paper SC209-WP01-03 will serve as the beginning basis for any revisions that SC-209 feels are required to DO-144.

Gary indicated that Working Paper SC209-WP01-04 is a copy of DO-218B which SC-209 will use in the updating of DO-181C. Peter Muraca indicated that he had already reviewed DO-218B with the objective of understanding what pieces of that document should be extracted and incorporated into DO-181D.

Gary indicated that Working Paper SC209-WP01-05 is a copy of the source document for DO-181C, with the published errata applied. Also a major amount of work has been performed in using standard RTCA formatting techniques in order to provide a basis for changes that SC-209 will consider necessary in the production of DO-181D.

Gary indicated that Working Paper SC209-WP01-06 represents a document that was forwarded to him by Bev Nichols of EUROCAE WG-49 as a set of issues that had been raised between DO-181C and ED-73B.

9. Tom Pagano began presenting Working Paper SC209-WP01-09 as a document that he and Bob Saffell had produced which itemizes the list of major issues that need to be dealt with when updating DO-181C and DO-144. After going through the complete text of each item in the Working Paper, **the Committee agreed** that we should begin by assigning individuals and/or groups to begin the review of each topic in preparation for reporting back to the Committee at Meeting #2. This process resulted in the modification of Working Paper SC209-WP01-09 as Revision 1. This revised version of the Working Paper will be posted on the new web site that Gary will create.
10. **The Committee agreed** that Meeting #2 would be held 23 – 24 May 2006 at the FAA WJH Technical Center, or in the facilities of The Titan Group which are located very near the Technical Center. The Committee will be advised well ahead of time which location will be used and given complete details on area hotels, restaurants and directions. **The Committee agreed** to set aside the dates of 8 – 9 August 2006 as the probable dates for Meeting #3, with the meeting location to be determined during Meeting #2.

11. The summary of the Action Items that were assigned and accepted during Meeting #1 follows:

Action Number	Action Description	Assigned to	Status
1-1	Discuss the creation of an SC-209 web site under the ADS-B web site currently maintained at the FAA Technical Center	Gary Furr	Done web site is available
1-2	Talk to ARINC about participating in the efforts of SC-209 in order to make sure that any issues related to AEEC work are accounted for.	Rob Duffer	
1-3	Coordinate with Stuart Searight to make sure that all of the TCAS issues are accounted for.	Tom Pagano Gary Furr	
1-4	Talk to FAA Flight Standards so that they can get involved with 14 CFR Part 43, Appendix F	Rob Duffer	

12. The **Working Papers** for all SC-209 Meetings, as well as the Meeting Agendas, Meeting Minutes, Meeting Schedules and proposed modifications to the ATCRBS and Mode S MOPS will be posted on the web site maintained by Gary Furr at the FAA William J Hughes Technical Center, located at:

<http://adsb.tc.faa.gov/SC209.htm>